

**USER MANUAL**  
**for the SOLPRINT JOB COSTING AND INVOICING**

COMMERCIALLY CONFIDENTIAL

**USER MANUAL**  
**for the**  
**SOLPRINT JOB COSTING**  
**AND INVOICING**

Issue One  
October 2001  
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# **USER MANUAL**

## **for the SOLPRINT JOB COSTING AND INVOICING**

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## **Scope**

This document describes the initial design for the SolPrint Job Costing and Invoicing.

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## **Amendment Record**

<b>ISSUE</b>	<b>DATE</b>	<b>REF</b>	<b>REASON</b>
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# I Introduction

Job costing forms the backbone of the Production Control suite of programs as well as standing as a necessary element on its own. It is directly used in five different areas:

**Invoicing:** The activity codes in job costing are the means by which estimated prices are transferred to the invoice. They also are the means of collecting costs which help to determine the selling price.

**Stock Control:** Costing directly relates to the paper stock file allowing the user to simultaneously maintain accurate stock information whilst entering stock usage costs against a job.

**Purchasing:** Costing activities create a link between Purchase Orders, the costs incurred on a job and to the Nominal Ledger via the Purchase Ledger. One entry simultaneously updates each area thus minimising that amount of data input required.

**Scheduling and Loading:** Job costing activities also link through to these areas. They allow the loading of time into the scheduling board from an estimate and also update the schedule from the Shop Floor Data Collection system. If scheduling is not used costing is used to generate loading reports and to progress job tracking.

**Costing:** Finally job costing is used to collect all costs involved in producing a job. This is used to monitor the factory performance and the accuracy of the estimating department. These costs are also used for fixing a selling price to a job and thus aid invoicing.

## 2 Master Files

These are set up via the Administrator module, accessed from the SolPrint Main Menu screen.

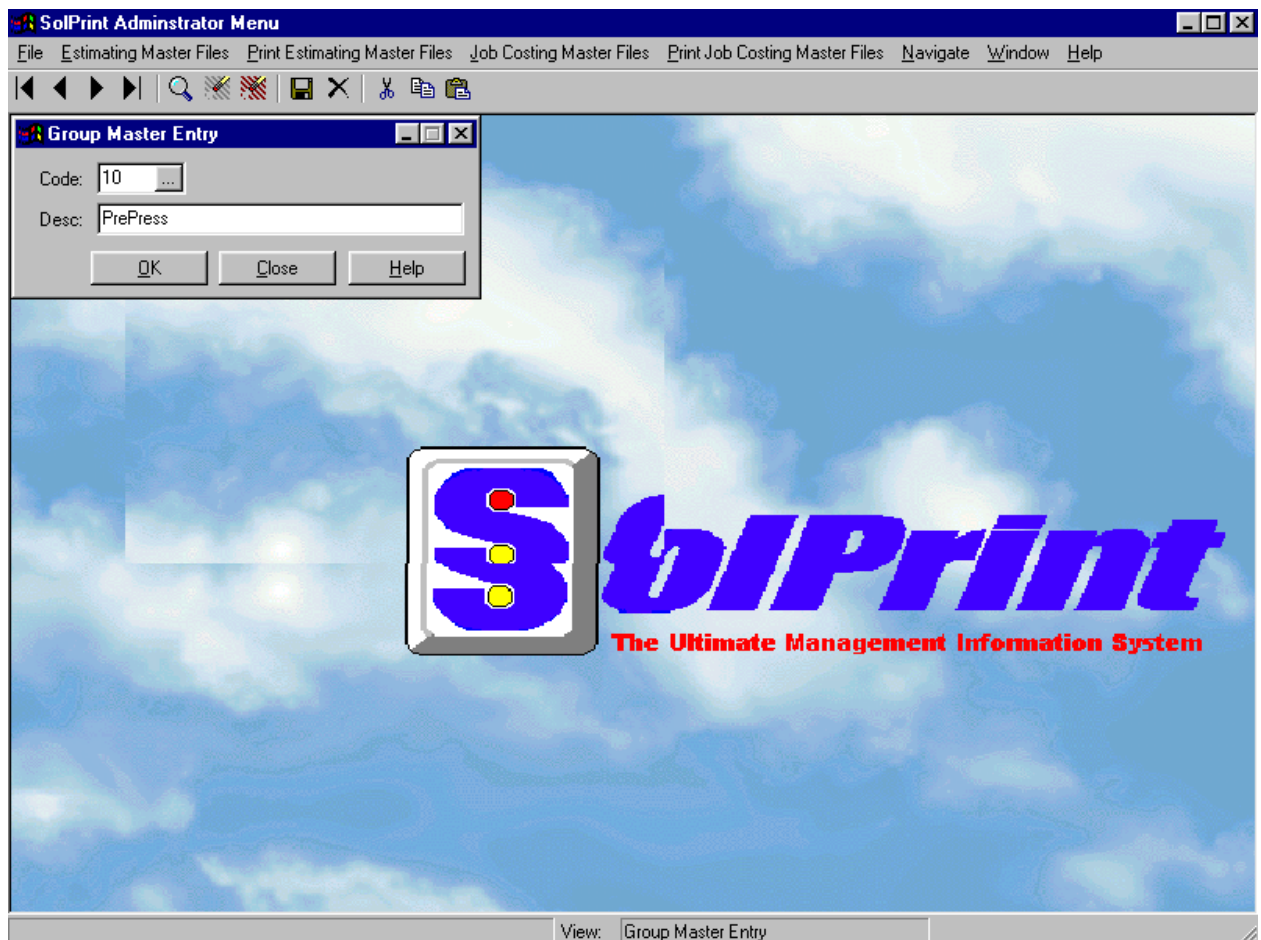
### 2.1 Group Entry

Groups are defined as departments or major operations which will have various cost centres within them. Example of groups may be: Admin, Prepress, Printing, Finishing and Despatch. At this point we are only defining the overall group to which activities will be added to later. A group consists of a two numbered code which will link to a cost centre for example: Artwork-10, Plate-making-20, Printing-30.

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## 2.2 Cost Centre Entry

Cost centres are the major operations and or pieces of equipment within a group which have various activities linked to them. Example of cost centres for the group 'Prepress' maybe design, typesetter, scanner, camera etc. Example for the group 'Printing' may be the names for each press. Again a cost centre consists of a two numbered code and is linked to a group: Group 'Prepress' 10 Cost Centre 'design' would be 1001 thus linking it to the group. This allows for 99 centres to be attached to a group. 'Direct Materials' xx90xx, 'Indirect Materials' xx91xx and 'Outwork' xx92xx cost centres are usually added to each Group. The number sequence should be logical and consistent – ie Prepress outwork is say 1092, while Printing outwork is 3092 etc. This makes it possible to construct meaningful reports using the Crystal Report Writer module.

It is important to remember that it is at the Cost Centre level that costs are linked to the five cost subtotal Depts A to E that you will be familiar with from the estimating master files. These departments are set up independently for job costing, but should normally mirror the estimating departments.

Please also note that the tabs at the foot of the Cost Centre setup screens relate to data collection, and are dealt with in the separate SolPrint Data Collection Manual.

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The screenshot shows the 'SolPrint Administrator Menu' window with the 'Estimating Defaults' dialog box open. The dialog has three tabs: 'General', 'Ink Defaults', and 'Description'. The 'General' tab is active, showing various settings for estimating defaults. The settings are organized into columns. The first column lists departments (Dept A through Dept E) with corresponding dropdown menus. The second column contains numerical values for 'Suspense Department', 'Use Gross Profit Margin', 'Default Bleed', 'Default Grip', 'Default Gutter', 'Default Sprocket mm', 'Default Grip %', and 'Minimum Grip Edge'. The third column includes a 'Wt View' dropdown, checkboxes for 'Run Ex Setup', 'Perfect Factor', 'Qty x Sides for Press Speed', 'Best Paper Sel', 'Prices Linked', and 'Round Paper', and a 'Ft Customer' dropdown. A 'Quote Desc' text field is also present. At the bottom of the dialog are 'OK', 'Close', and 'Help' buttons. Below the dialog, a status bar shows 'Description to appear for department A' and 'View: Estimating Defaults'.

**SolPrint Administrator Menu**

File Estimating Master Files Print Estimating Master Files Job Costing Master Files Print Job Costing Master Files Navigate Window Help

**Estimating Defaults**

General Ink Defaults Description

Suspense Department: A

Dept A: Paper

Dept B: Repro

Dept C: Press

Dept D: Finishing

Dept E: Outwork

Use Gross Profit Margin: ...

Default Bleed: 3

Default Grip: 15

Default Gutter: 5

Default Sprocket mm: 25

Default Grip %: 10.00

Minimum Grip Edge: 10

Wt View: STWrktk

☐ Run Ex Setup ☐ Perfect Factor

☐ Qty x Sides for Press Speed ☒ Best Paper Sel

☒ Prices Linked ☐ Round Paper

Ft Customer: BBBUILDE

Quote Desc:

Delivery: Delivery to one local address

Terms: Terms are strictly 30 days from date of invoice.

OK Close Help

Description to appear for department A View: Estimating Defaults

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The screenshot shows the 'SolPrint Administrator Menu' window. The 'Cost Centre Master File' dialog box is open, displaying the following fields:

- Code: 1092
- Description: Prepress Outwork
- Short Description: Prepress OW
- Group: 10 (Prepress)
- Department: A

The 'Parameters' tab is selected, showing the following sub-sections:

- Loadings:**
  - Hours per Day: [ ] Days per Week: [ ]
  - No of Machines: [ ] Total Weeks: [ ]
- Other:**
  - Est Variance (%): [ ] Util Variance (%): [ ]
  - Default Wait Time: [ ] Material/Sub: [ ]

Buttons at the bottom: OK, Close, Help.

## 2.3 Activity Entry

Activities are the actual operations which relate to a particular cost centre, i.e. cost centre 'design' may have activities: Discuss brief, create visuals, amend authors, amend artwork, etc. Activities for each press maybe: Make-ready, Run On, Wash-up, Maintenance etc. An activity code should consist of six numbers the first four of which can be used to identify the department and the cost centre. It is often useful to split these activities into three areas – directly chargeable ie make-ready or run-on, indirectly chargeable such as authors corrections and non chargeable ie maintenance, once again using a logical and consistent number series.

There are three types of activity, Labour, Materials and Subcontract.

Labour activities are coded as either productive or non-productive and this can be analysed in Factory Productivity reports. The aim of labour activities is to record time spent on a job, attach a value to it and thus charge it, if it is a productive activity, to a job. So, for example, the complete activity code for GTO make-ready would be:

Group	GTO	Make-ready
30	10	01

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Materials activity codes have to be set up in order to charge materials to a job. Again it is a six figure code the first four of which can be used to relate material to a particular department and material group. So for example you could analyse consumable materials (e.g. blankets) by department as opposed to chargeable materials such as plates and paper. For example a plate activity would be 309101 .

Group cost centre activity  
30      91      01

Where the cost centre in this case would be chargeable materials within the department or group Plate Making.

Subcontract activities are required to capture costs incurred for any activities purchased outside of the company. Again it is a six figure code the first four of which can be used to relate purchase to a particular department and purchase group.

These activities are used in the purchase order program as well as job costing. A subcontract activity can be linked to the relevant Nominal Ledger code. The activity is then selected when a Purchase Order is raised so that when the Purchase Order invoice is entered into the system it is posted to the Nominal Ledger via the Purchase Ledger as well as to the costs for the job.

The screenshot shows the 'SolPrint Administrator Menu' window. The 'Activity Entry' dialog box is open, displaying the following fields and options:

- Activity Code: 309001
- Description: Plates - material costs
- Cost Centre: 3090
- L/M/S: M (Labour), [ ] (Materials), [ ] (Subcontract)
- Hourly Rate: (empty)
- 2nd Hourly Rate: (empty)
- Labour Rate: (empty)
- Status Desc.: (empty)
- Run Rate: ☐
- Productive: ☐
- GL Code: SALES
- Tax Code: 1
- Auto Post: ☐
- Outwork Margin: (empty)
- Outwork/Mat: 0

The dialog box has tabs for General, Invoice Extra Details, Data Collection Options, and Quality Control. The 'General' tab is selected. The 'OK', 'Close', and 'Help' buttons are at the bottom right of the dialog box.



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The Hourly Rate field is only required for Labour Activities.

The Run Rate field is used to prompt entry of a quantity (say of sheet run) when entering job costs against this activity.

The GL code and Tax Code is needed if a Purchase Order may be raised using this Activity.

The Auto Post box is used for activities for which you do not wish to collect actual job costs, but prefer to transfer the estimated costs across to be actual costs (ie ink).

## 2.4 Link Presses and Activities

When a job is converted from an estimate it is necessary to allocate estimating activities to the relevant job costing activities. There can clearly be far more costing activities than estimating and it is necessary to inform the system as to which activities are related.

This is done by entering the activities in the Paper, Press, Ink and Additional Processes estimating Master Files. You select the corresponding 6 figure activity (using the index buttons) thus relating, for example a job make-ready to its relevant activity code. This can also be done via the Database Explorer utility – please ask your SolPrint Project Manager for details.

The screenshot displays the 'SolPrint Administrator Menu' window. The 'Paper Master File Maintenance' tab is active, showing a form for maintaining paper master files. The form includes fields for Paper (ART), Web/Sheet/Cont. (S), GSM (100), Types (MA), Qty Type (S), Ink Factor (1.00), Size in (M), Category, Dept Code (A), Sheets Per Lift (300), Perfect (checked), Activity Code (309101), Micron (0), and Density (0.0000). There are also tabs for Purchase Details, Supplier Details, and Paper Colours. The Purchase Details tab is selected, showing fields for Min. Purchase (0), Purchase Size (100), Reel Length, Type (P), Customer Supplied, Uplift Percent (0), and Def Coverage. A list of checkboxes for Grain, Watermark, Stock, and Qty Break in Tonnes is also present. The bottom of the window shows a status bar with 'View: Paper Master File Maintenance'.

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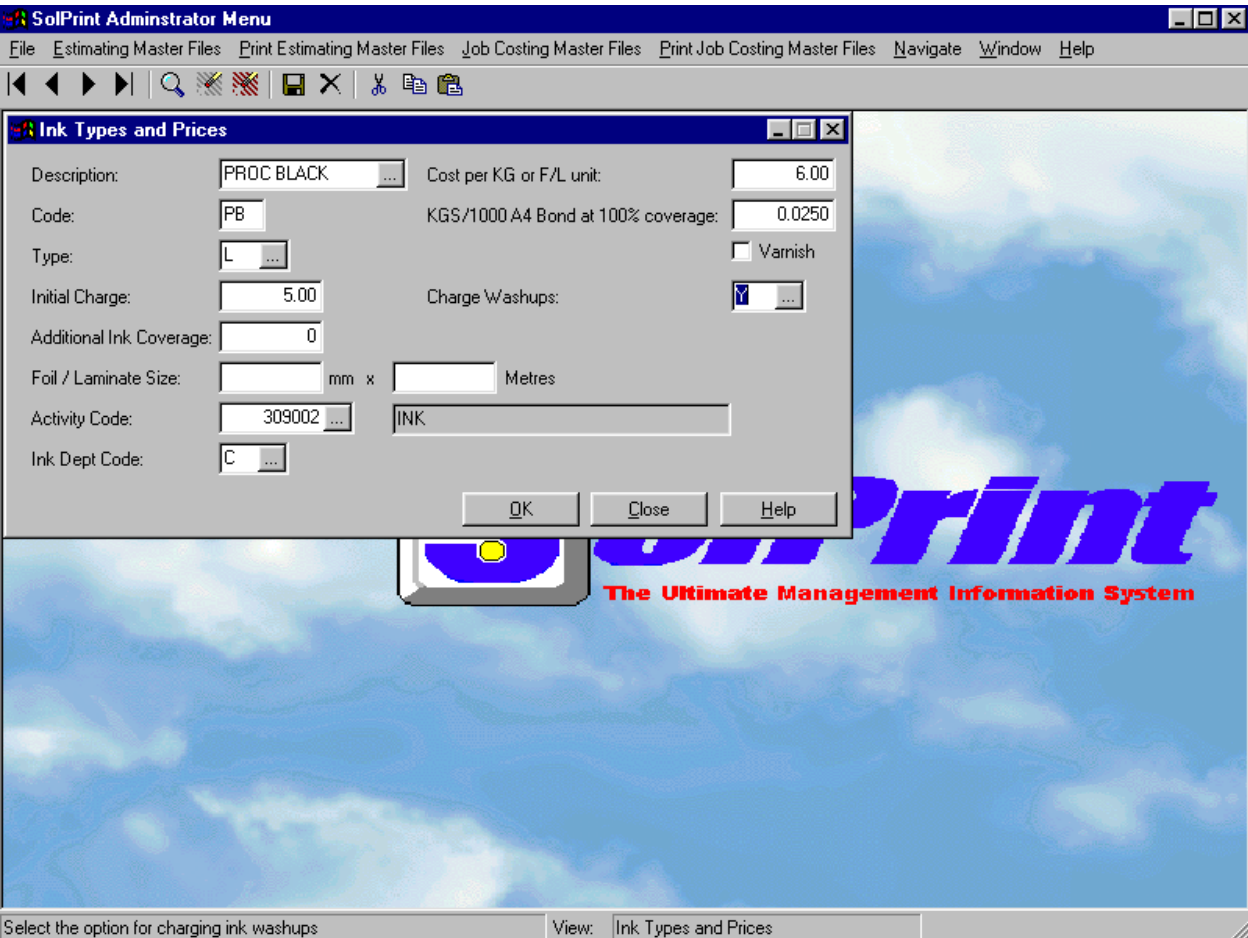
The screenshot shows the 'SolPrint Administrator Menu' window. The 'Press Master File' dialog box is open, displaying various settings for a press job. The 'Name' field is 'GTD 52', 'Press No.' is '5', 'Press Type' is 'SHEET', and 'Max Cols' is '1'. The 'Parameters' tab is selected, showing fields for 'Ink Colours' (2), 'Max Quantity' (2000), 'Hourly Rate Factor' (1.00), 'Setup Side1' (150), 'Setup Side2' (100), 'Work and Turn' (175), 'Job Mr Act Code' (300101), 'PI Mr Act Code' (300101), 'Run Act Code' (301001), 'Run overs % up to 2000' (5.00), 'Run overs % up to 5000' (4.00), 'Run overs % up to 10000' (3.00), 'Run overs % up to 50000' (2.00), 'Run overs % over 50000' (1.00), 'Washup Act Code' (300101), 'PI Lab Act Code' (101001), 'PI Mat Act Code' (309001), and 'PI Sub Act Code' (309201). There are 'Save' and 'Delete' buttons at the bottom right of the dialog box, and 'Help', 'OK', and 'Close' buttons at the bottom of the main window.

Field	Value
Name	GTD 52
Press No.	5
Press Type	SHEET
Max Cols	1
Ink Colours	2
Max Quantity	2000
Hourly Rate Factor	1.00
Setup Side1	150
Setup Side2	100
Work and Turn	175
Job Mr Act Code	300101
PI Mr Act Code	300101
Run Act Code	301001
Run overs % up to 2000	5.00
Run overs % up to 5000	4.00
Run overs % up to 10000	3.00
Run overs % up to 50000	2.00
Run overs % over 50000	1.00
Washup Act Code	300101
PI Lab Act Code	101001
PI Mat Act Code	309001
PI Sub Act Code	309201

Note that the activity codes need to be entered for every 'ink colours' screen separately.

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File Estimating Master Files Print Estimating Master Files Job Costing Master Files Print Job Costing Master Files Navigate Window Help

**Additional Processes**

Name: Folding Charge Type: Price List Price List Table

Quote Desc:

Dept Page: Finishing (Part)

Dept Code Lab: D Hourly Rate Dir: 40.00

Dept Code Mat: E Hr Rate Cont: 10.00

Dept Code Sub: Outwork Y/N:

Use in Desc: ☒ Use in Runon: ☒

Supplier Template Cross Ref: ☐

Variable in Calc: ☒ Variable Option: D

Variable Prompt: No Up

Default Supplier Lab Act Code: 402001 Lab Markup: 0.00

Mat Act Code: 409001 Mat Markup: 0.00

Sub Act Code: 0 Sub Markup: 0.00

VariationTable Variation Table: ☒ Var Table Type: Pages

Core Mr Time: 0.00

Master Mr Time: 0.00

Meters Per Master: 0

Section Y/N: ☐

Folding YN: ☒

Price Per: 1000

Qty Type: Job Sheet

Line No: 3

New Delete Save Close

View: Additional Processes

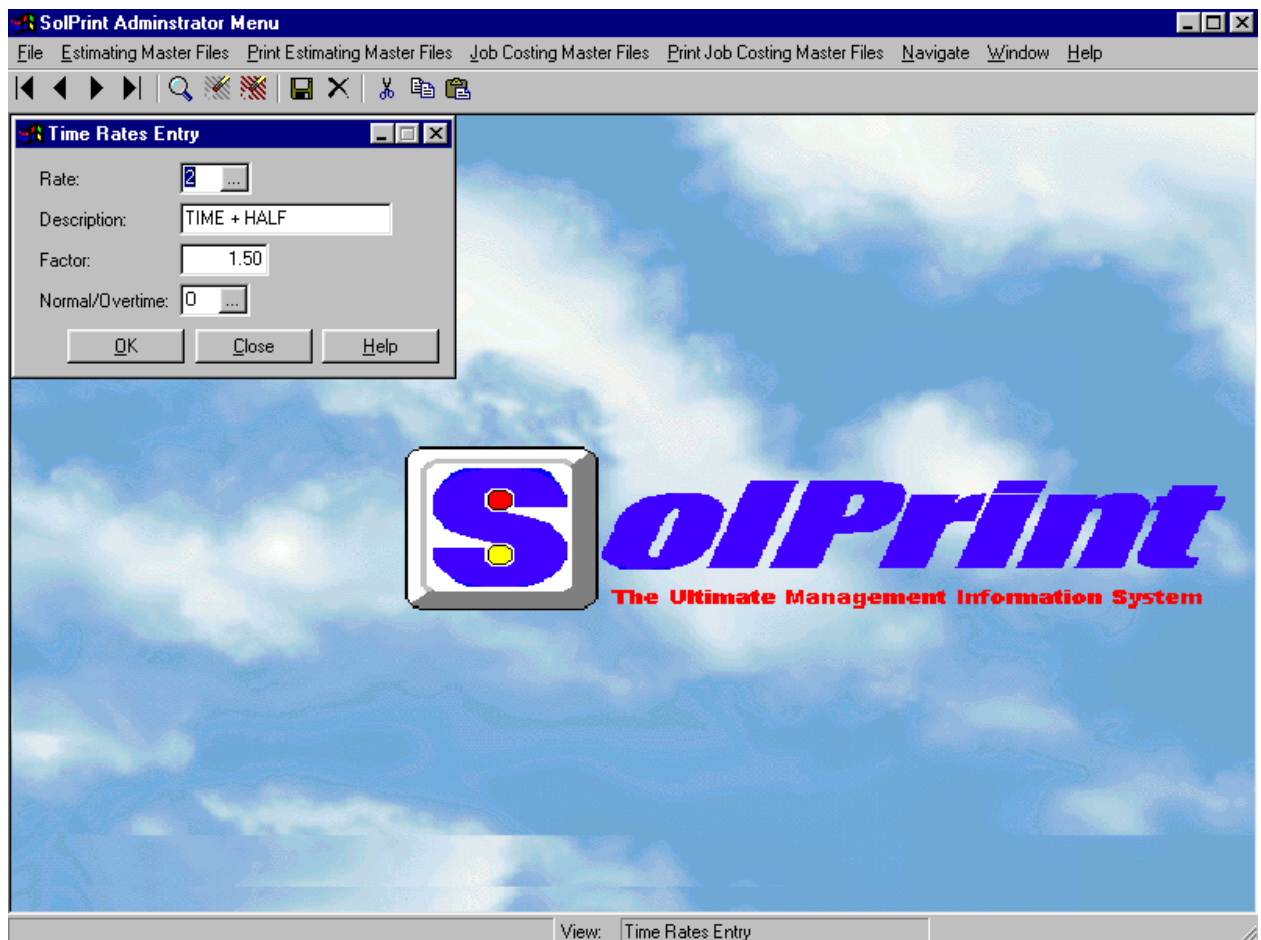
## 2.5 Time Rate Entry

This file is used to define the various labour rates that may apply to your company, ie. "1" may be standard time, "2" may be time and a half and "3" may represent double time. Each code has a field indicating whether or not the rate is an overtime rate, this is used to provide overtime analysis displays and reports. The Time Rate codes will be entered in the time sheet entry screen.

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## 2.6 Employee Entry

This file is used to enter all employees using a unique code for each. This code should preferably be alpha using an employee initials for example. If Shop Floor Data Collection issued it is recommended that a numeric code is used so that it may be entered from the numeric key pad required. Also in this screen you enter the employee's standard daily mover. The employee time rate also featured here and is used as a default rate when time is charged to the job and can be overridden at the time sheet entry screen.

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The screenshot shows the 'SolPrint Administrator Menu' window. The menu bar includes 'File', 'Estimating Master Files', 'Print Estimating Master Files', 'Job Costing Master Files', 'Print Job Costing Master Files', 'Navigate', 'Window', and 'Help'. Below the menu is a toolbar with icons for navigation and editing. The main area is titled 'Employee Entry' and contains the following fields:

Employee Code:	PAG	Standard Hours/Day:	8.00
First Name:	PETER	Default Activity:	404001
Surname:	GRIFFIN	Default Pay Rate:	1
Password:	**	Time Attendance Rule Type:	
Payroll No:	234		

At the bottom of the form are three buttons: 'Save + Close', 'Close', and 'Help'. The background of the window features the SolPrint logo, which consists of a stylized 'S' in a square followed by the text 'SolPrint' in a large, bold, blue font. Below the logo is the tagline 'The Ultimate Management Information System' in red. The status bar at the bottom right shows 'View: Employee Entry'.

## 2.7 Standard Material Entry

The aim of this file is to make the entry of materials as simple as possible. For example the user may well set up one activity for film. However there are many sizes and types of film each with their own price. It would be impractical to set up an activity for each of these.

This file enables the user to set up a variety of materials descriptions each with its own price but each linked to a common activity code. For example A4 negatives cost £10 and A3 cost £20 but both are linked to one activity. Each material needs a price and a per unit measure, i.e. price per one or per 1000, depending on the quantity you would use.

The other reason for creating this file is that it is easier to enter and find materials by their name rather than an activity code. Thus this description is used in the costing materials entry program.

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**SolPrint Administrator Menu**

File Estimating Master Files Print Estimating Master Files Job Costing Master Files Print Job Costing Master Files Navigate Window Help

Materials Entry

Description: 01 MIN SCAN MONO

Default Activity: 2015 SCANNING - MATERIAL CHARG

☐ Prompt for Sides

Price Per: 1

Quantity Breaks:	20	£	1.50
	99999999	£	1.30
	0	£	0.00
	0	£	0.00
	0	£	0.00
	0	£	0.00
	0	£	0.00
	0	£	0.00
	0	£	0.00
	0	£	0.00
	0	£	0.00

OK Close Help

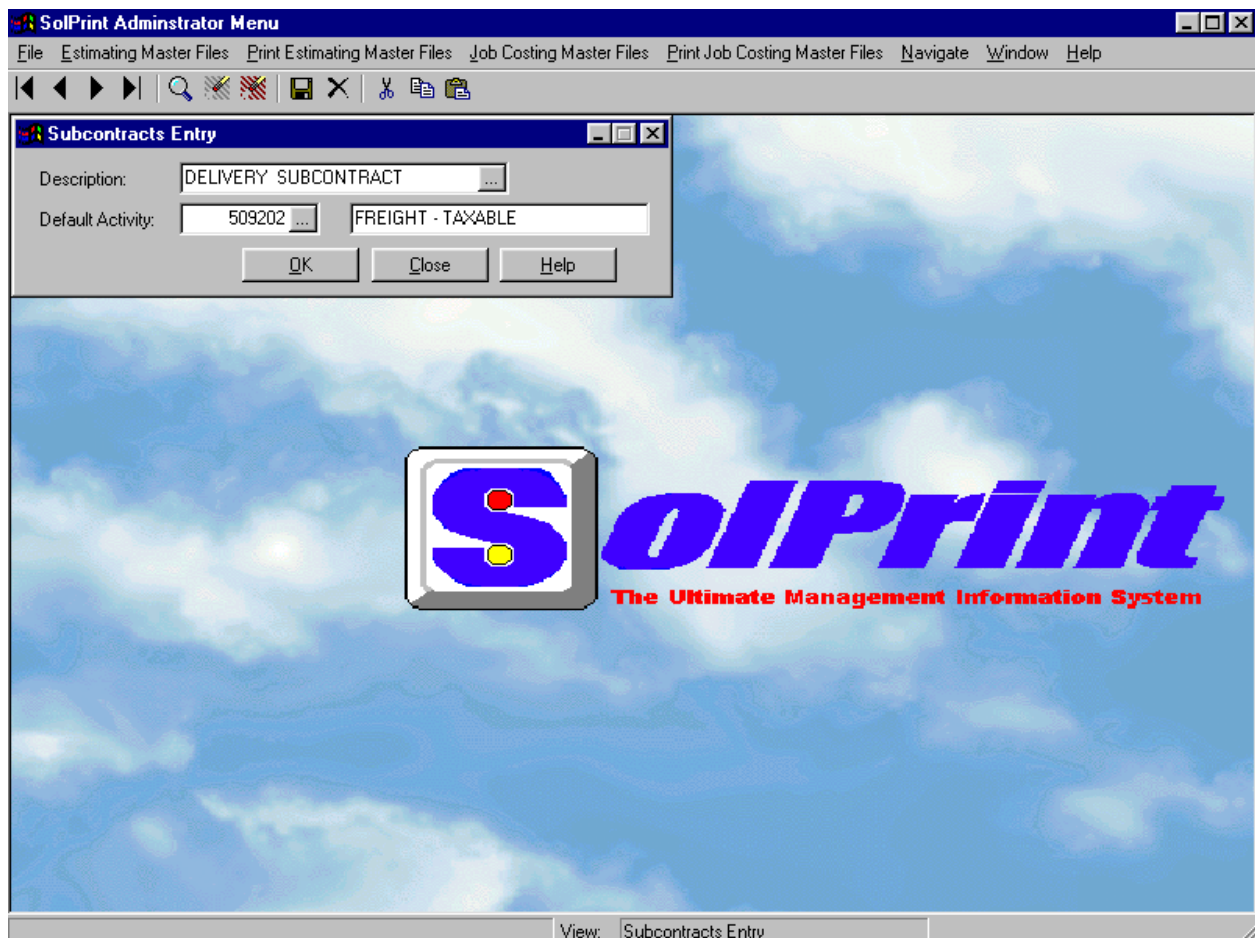
**SolPrint**  
Ultimate Management Information System

View: Materials Entry



## 2.8 Standard Subcontract Entry

Enter in this file standard subcontract operations that are used for example, plate-making. As in Standard Material Entry, all entries must be linked to an activity code.





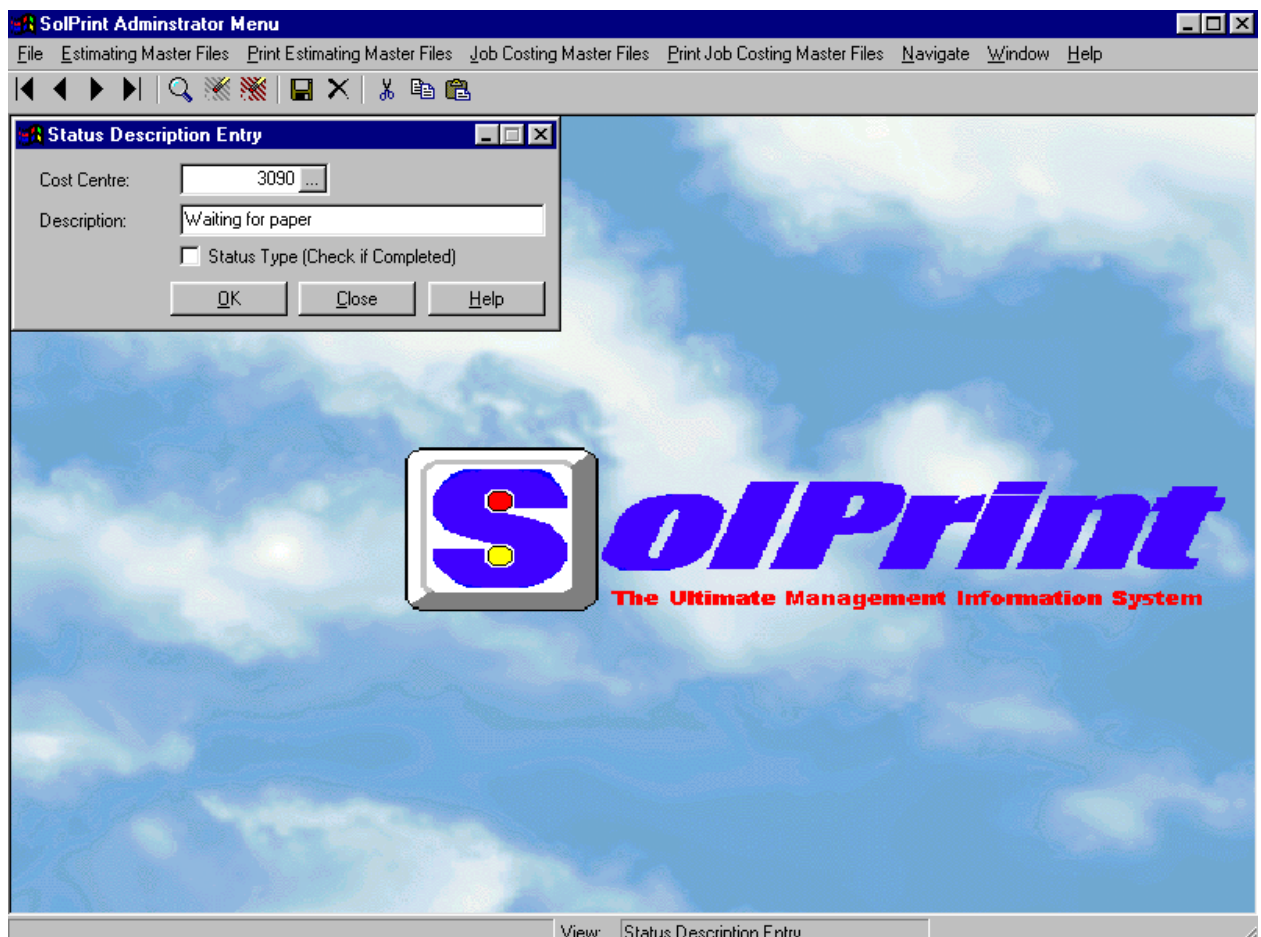
## 2.9 Standard Description Entry

Enter in this file any description you may wish to define with regards to an activity code, these may then be used as comment when entering time sheets or may be selected when using Shop Floor Data Collection. For example:

Plate-making could have: Bad development  
Hole in plate  
Plates worn out

Printing run could have: Drying problems  
Paper dust  
Ink coverage problem

The descriptions are linked to the activity code and are input in the time sheet entry module



## 3 Job Costing Defaults

A number of other master file settings are available from the Job Costing Master Files drop-down menu:

The Defaults tab is used to set up the locations of the crystal reports that various modules eg purchasing or delivery note will chain into.

The Credit check box enables a credit check prompt when a work ticket is raised. It will display the customer's credit limit and the value of current invoices and work in progress.

Multi sections – if an estimate has multiple sections within a part, this box creates a separate part for each section in the work ticket.

Round pap overs on work ticket – self explanatory!

The screenshot shows the 'SolPrint Administrator Menu' window with the 'Job Costing Defaults' dialog box open. The dialog box has a tabbed interface with the following tabs: Defaults, Prompts 1-20, Prompts 21-40, Prompts 41-60, Prompts 61-75, User Def Prospect Prompts, and Standard Terms. The 'Defaults' tab is selected. The dialog box contains the following fields and controls:

- Order Confirmation Format: [Empty text box]
- Purchase Order Format: [Empty text box]
- Delivery Note Format: [winql\delforfl.exe]
- Invoice Format: [winql\invforhp.exe]
- Credit Note Format: [Empty text box]
- Work Ticket Report 1: [Empty text box]
- Work Ticket Report 2: [Empty text box]
- Work Ticket Report 3: [Empty text box]
- Work Ticket Report 4: [Empty text box]
- Work Ticket Report 5: [Empty text box]
- Credit Check: [Empty text box]
- ☒ Multi Sections
- ☐ Round Pap Over on W/T
- Minimum FGS Order Value: [0.00]
- FGS Order Conf Format: [Empty text box]
- FGS Delivery Format: [Empty text box]
- FGS Invoice Format: [Empty text box]

At the bottom of the dialog box are three buttons: OK, Close, and Help. The status bar at the bottom of the window shows 'View: Job Costing Defaults'.

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The four Prompts tabs allow entry of user defined prompts used in some versions of the Work Ticket module. Your Project Manager will explain if these are relevant to a specific site.

The screenshot shows the 'SolPrint Administrator Menu' window with the 'Job Costing Defaults' sub-window open. The 'Job Costing Defaults' window has a tabbed interface with the following tabs: Defaults, Prompts 1-20, Prompts 21-40, Prompts 41-60, Prompts 61-75, User Def Prospect Prompts, and Standard Terms. The 'Prompts 1-20' tab is selected, displaying a list of 20 prompts arranged in two columns. The prompts are as follows:

Prompt	Value
Prompt1:	Paper Pre Press Trim
Prompt2:	Section
Prompt3:	To Size
Prompt4:	Image Pos. Centre
Prompt5:	Side to Side
Prompt6:	Back to Front
Prompt7:	Other
Prompt8:	Stack On Pallets
Prompt9:	Checkweigh
Prompt10:	Customer Pass
Prompt11:	Match Proofs
Prompt12:	Cromalin
Prompt13:	Trannies
Prompt14:	Other
Prompt15:	
Prompt16:	
Prompt17:	
Prompt18:	
Prompt19:	
Prompt20:	

At the bottom of the window are buttons for OK, Close, and Help. The status bar at the bottom of the application window shows 'View: Job Costing Defaults'.

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The User Defined Prompts tab relates to the Prospect master file – see the separate Prospect Manual.

The screenshot shows the 'SolPrint Administrator Menu' window with the 'Job Costing Defaults' dialog box open. The dialog box has a tabbed interface with the following tabs: 'Defaults', 'Prompts 1-20', 'Prompts 21-40', 'Prompts 41-60', 'Prompts 61-75', 'User Def Prospect Prompts', and 'Standard Terms'. The 'User Def Prospect Prompts' tab is currently selected. It contains 18 text input fields arranged in two columns, labeled 'User Defined Prompt 1' through 'User Defined Prompt 18'. At the bottom right of the dialog box are three buttons: 'OK', 'Close', and 'Help'. The status bar at the bottom of the window shows 'View: Job Costing Defaults'.

User Defined Prompt	User Defined Prompt
User Defined Prompt 1:	User Defined Prompt 10:
User Defined Prompt 2:	User Defined Prompt 11:
User Defined Prompt 3:	User Defined Prompt 12:
User Defined Prompt 4:	User Defined Prompt 13:
User Defined Prompt 5:	User Defined Prompt 14:
User Defined Prompt 6:	User Defined Prompt 15:
User Defined Prompt 7:	User Defined Prompt 16:
User Defined Prompt 8:	User Defined Prompt 17:
User Defined Prompt 9:	User Defined Prompt 18:

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The Standard Terms tab allows entry of site specific data used in some versions of the Work Ticket module. Your Project Manager will explain if these are relevant to your site.

The screenshot shows the 'SolPrint Administrator Menu' window with the 'Job Costing Defaults' dialog box open. The dialog box has a tabbed interface with the following tabs: Defaults, Prompts 1-20, Prompts 21-40, Prompts 41-60, Prompts 61-75, User Def Prospect Prompts, and Standard Terms. The 'Standard Terms' tab is selected. Inside this tab, there are three text input fields labeled 'Standard Text 1:', 'Standard Text 2:', and 'Standard Text 3:'. Each field has a vertical scrollbar on its right side. At the bottom right of the dialog box are three buttons: 'OK', 'Close', and 'Help'. The status bar at the bottom of the window shows 'View: Job Costing Defaults'.

Print Master Files.

At any time you may wish to print a list of the following:

- Cost centre
- Activities
- Time rate
- Employees
- Standard materials
- Standard Sub-contract
- Status listing

Standard Crystal Reports are available to print out any of these.

## **3.1 Convert an Estimate to a Job**

In order to get the full benefit out of job costing it is necessary to create a job from an estimate. This makes the system much easier to use as details such as paper stock and subcontract requirements are available for automatic input into the system. (See also the separate SolPrint Work Ticket Manual.)

This also allows the comparison of estimated and actual costs. This is essential in completing the closed circle required to produce as accurate estimates of expected costs as possible. When this is refined this system allows to user to manage by exception. Any job that varies wildly from the estimated cost is worthy of further investigation whilst those that perform as expected can be handled routinely.

## **3.2 Input Labour Time Sheets**

This is done through the Time Sheet Entry program. This program is used for the entry, amendment and deletion of the details from an operators time sheet. Each sheet is allocated to an employee and a date. Details of the job number, the activity performed and that amount of time taken, are entered on each line of the screen. A field is also available for the entry of any comments. If either the job number or activity code are not known they can be looked up from this screen.

The labour rate is also entered in this screen. The default rate, usually standard time, is entered in the system defaults and will be used automatically unless overridden.

Time has to be entered as a decimal.

**Job Costing Main Menu**

File View Navigate Window Help

Time Sheet Entry

Employee Code: NKM Nick Moore Date: 01/05/2000

Job No	Activity	Status
1319	1002	

**Time Sheet Details**

Employee Code: NKM

Job Number: 1319 Title: 16 page Self cover Booklet

Customer Code: BBBUILDE Customer: B.B. BUILDERS LTD

Activity: 1002 Description: TYPE - SETTING

Labour Rate: 1 Description: NORMAL

Status:

Start Time: 11.00 Finish: 12.00

Run Quantity:

OK Cancel

Create Edit Clear Close Help

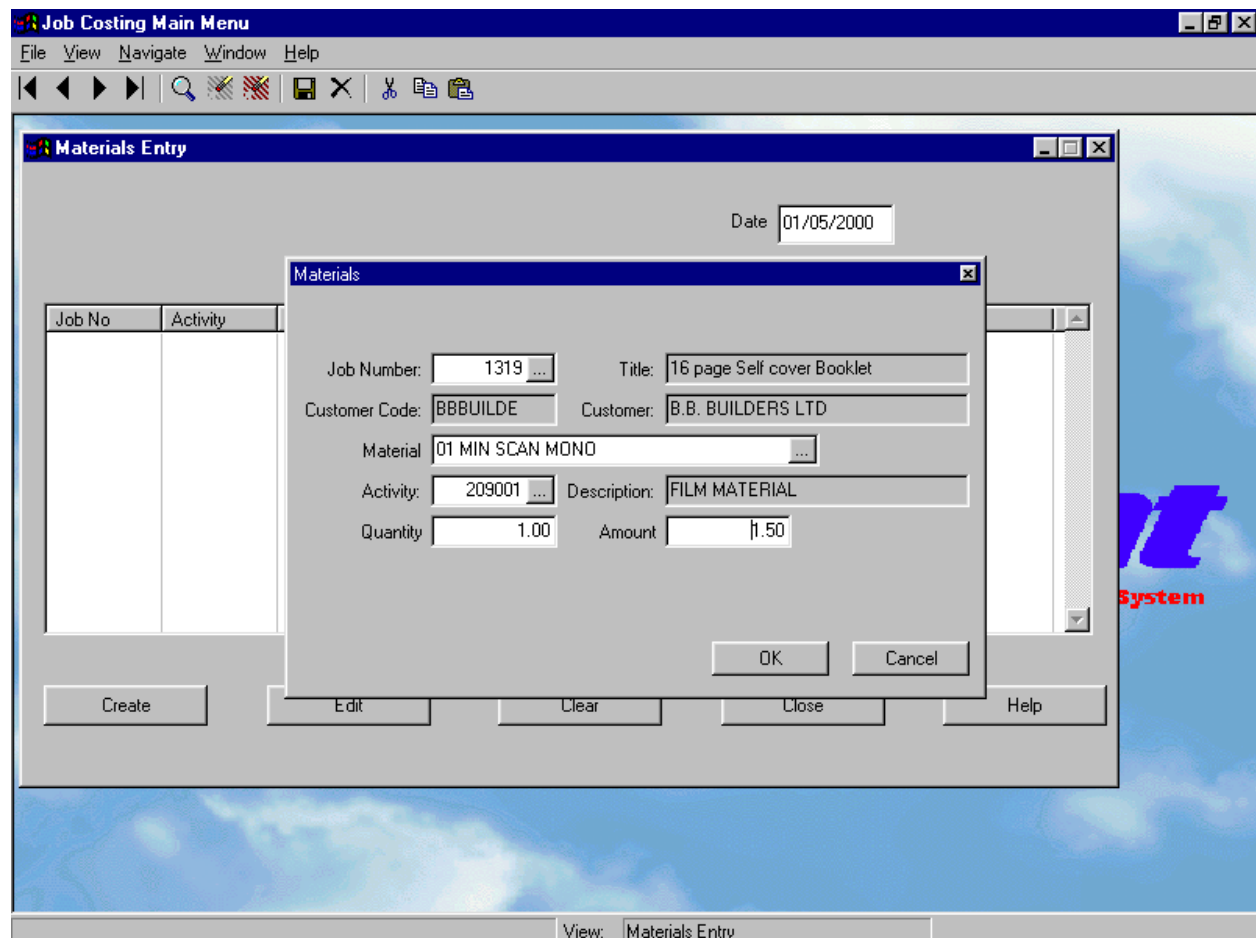
View: Time Sheet Entry

### 3.3 Input Materials Usage

This is done through the Materials Entry program. This program is used for the entry, amendment and deletion of the details of materials consumed during a day. Each sheet is allocated to a date. Details of the job number, the material used and the amount consumed is entered on each line of the screen.

The use of standard material descriptions created in the master files makes material entry easier and removes the need for remembering activity codes. If either the job number or the material description are not known they can be looked up from this screen.

If the Purchase Order suite of programs is in use this program will only be used for consumables such as ink and film. Other materials such as paper will be entered from the Purchase Order.



### 3.4 Input Subcontract Costs

This is done through the Subcontract Entry program. This program is used for the entry, amendment and deletion of the details of subcontract charges incurred during a day. Each sheet is allocated to a date. Details of the job number, the description and the amount it cost is entered on each line of the screen.

The use of standard subcontract descriptions created in the master files makes subcontract entry easier and removes the need for remembering activity codes. If either the job number or the subcontract description are not known they can be looked up from this screen. If the required description does not exist it can be entered here, however an activity code will then need to be entered.

If the Purchase Order suite of programs is in use this program may not be used. All subcontract work that is ordered by Purchase Order will be automatically entered as a cost from the Purchase Order. This program would only then be used for purchases without a purchase order, e.g. courier charges.



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The screenshot displays the 'Job Costing Main Menu' application. The 'SubContract Entry' window is active, featuring a 'Sub-Contract Information' dialog box. The dialog box contains the following fields and values:

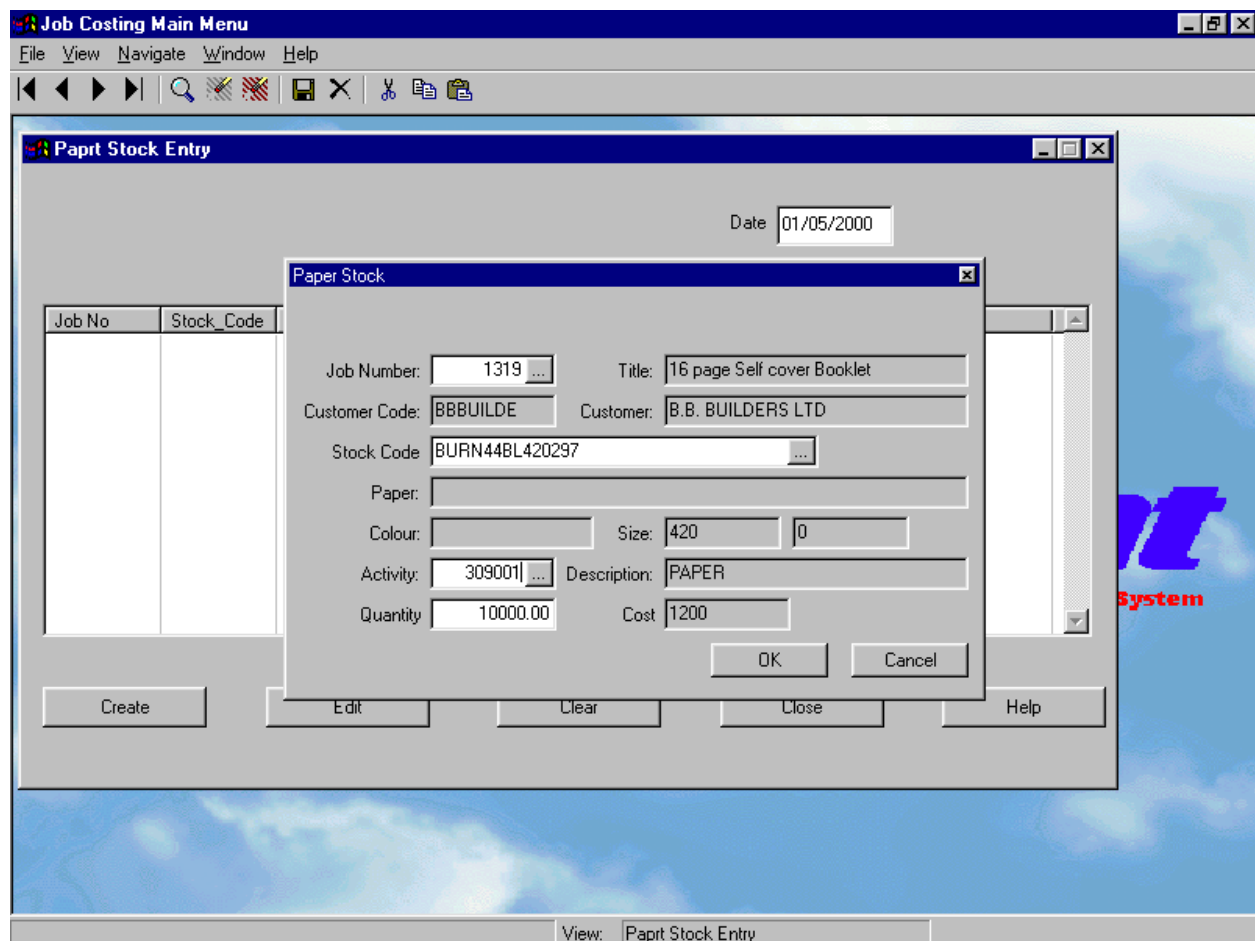
Field	Value
Job Number	1319
Title	16 page Self cover Booklet
Customer Code	BBBUILDE
Customer	B.B. BUILDERS LTD
Subcontract	DEL SUB
Activity	509201
Description	FREIGHT - TAXABLE
Quantity	1.00
Amount	100.00

The background window shows a table with columns 'Job No' and 'Activity'. At the bottom, there are buttons for 'Create', 'Edit', 'Clear', 'Close', and 'Help'. The status bar at the bottom indicates 'View: SubContract Entry'.

### 3.5 Input Paper Stock Usage

This program is for the entry, amendment and deletion of paper stock usage. If paper has been reserved for a job than the details can be inserted by entering the job number and section number. It is then only necessary to amend the amount used and to state that the section is complete. If the stock is not reserved or the job is not estimated it will be necessary to enter the stock code and consumption. Stock codes can be looked up from this screen.

This is directly linked to the paper stock file. When paper is used it is taken out of the "Allocated" field in the stock file. If less than the allocated amount is used then the balance is made available for other jobs. The actual usage is recorded against the stock file and an audit trail is kept.



## 3.6 Default Material and Subcontract Costs

For some companies it may not be practical for a company to collect all the material or subcontract costs incurred on a job. Ink costs are notoriously difficult to record. If this is not collected it would look as if the actual costs were less than the estimated when this may not be the case. To reduce this anomaly it is possible to flag some activities as "Auto-Post". A utility is then run to auto-post these costs for a range of jobs. The result of this is that the estimated costs will then equal the actual for those selected activities. These costs are flagged as system generated in order to differentiate them from true actual costs.

## **4 Data Collection**

Shop Floor Data Collection is an improved method of collecting the data that is required in job costing. Although there is an initial hardware outlay there are numerous benefits to be gained in the long term. The SolPrint system does this by using a combination of a bar code reader and a numeric key pad. See the separate SolPrint Data Collection Manual.

One of the main problems with the use of time sheets is that they are very prone to human error. Either the operators writing is illegible or he enters the wrong stock code or job number. The use of bar code readers reduces this type of error.

Data entered by Shop Floor Data Collection is entered in real time. This means that it is possible to see what is going on at any moment in the machine rooms. It also means that the amount of time taken is accurately measured and is not inaccurately guessed some time after the event has taken place.

## **5 Display Screens**

### **5.1 Job Status Review**

These views pull together all the details collected on any one job such as Quality Control answers, Purchase Orders, Actual vs Estimated costs grouped by department, and the Work Ticket including Job notes.

For details, please see the SolPrint Work Ticket Manual.

## **6 Reports**

There are a whole range of bespoke Crystal Reports available from within job costing. Please ask your Project Manager for details.

## 7 Pricing

In order to price a job it is necessary to bring together all the costs incurred in producing a job. It may be necessary to compare the cost with the estimate that may have been given to the customer. If not it is at least necessary to review the costs before fixing a selling price. This can be done on screen using the invoicing program.

## 8 Invoicing

### 8.1 Invoice a Job

Invoice a Job is accessed from the Invoicing button on the SolPrint main menu screen. It brings together all the details of the job costs on one screen and allows the user to make informed pricing decisions; and removes the job from Work in Progress.

Job Invoicing											
Job ...	Job Qty	Quote No	Invoice No	Quote Date	Start Date	Due Date	Del Date	Inv Date	Ac No	Status	Title
1222	1500	5563	0		10/06/1999	10/07/1999	11/07/1999		BBBUILDE		TEST SIMPLE
1223	5000	5566	0	24/06/1999	24/06/1999				BBBUILDE		test
1224	5000	5566	0	24/06/1999	24/06/1999				BBBUILDE		test
1226	10000	5576	0		30/06/1999	10/07/1999			BBBUILDE		TEST NEW SIMPLE
1227	8000	5579	0	06/07/1999	06/07/1999	10/08/1999			BBBUILDE		TEST
1228	7000	5581	0	07/07/1999	07/07/1999	10/08/1999	10/08/1999		BBBUILDE		TEST FOR COPY
1229	7000	5569	0	25/06/1999	12/07/1999				BBBUILDE		COMPANY REPORT
1230	7000	5569	0	25/06/1999	12/07/1999				BBBUILDE		COMPANY REPORT
1231	10000	5606	0	06/08/1999	06/08/1999				BBBUILDE		test
1232	7000	5581	0	07/07/1999	10/08/1999				BBBUILDE		TEST FOR COPY
1233	5000	5610	0	10/08/1999	10/08/1999				BBBUILDE		TEST
1234	7000	5612	0	10/08/1999					BBBUILDE		TEST FOR COPY
1313	8000	5805	0	29/12/1999	29/12/1999	15/01/2000			BBBUILDE		COMPANY BROCHU
1314	6000	5806	0	29/12/1999	29/12/1999	10/01/2000			BBBUILDE		test
1315	10000	5807	0	04/01/1998	04/01/1998				BBBUILDE		COMPANY REPORT
1316	10000	5811	0	24/02/2000	24/02/2000	25/12/2000			01TEST		rrrtretretretrettert
1317	1000	5810	0	22/02/2000	24/02/2000				16		title
1318	10000	5812	0	02/03/2000	02/03/2000	25/12/2000			BBBUILDE		title
1319	10000	5814	0	25/04/2000	26/04/2000				BBBUILDE		16 page Self cover B
1320	10000	5815	0	26/04/2000	26/04/2000				DEMONSTR		16 page Self cover B
999001	1	999001	0			31/12/1999			DEMONSTR		SICK LEAVE JOB
999002	1	999002	0			31/12/1999			DEMONSTR		HOLIDAY JOB
999003	1	999003	0			31/12/1999			DEMONSTR		MAINTENANCE JOB

☐ Include Historical Jobs

Selection

OK

Close

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The screenshot shows the 'Production Invoicing Main Menu' window with a menu bar (File, View, Reports, Navigate, Window, Help) and a toolbar. A 'Production Invoice Entry' dialog box is open in the foreground. The dialog box contains the following fields and controls:

- Batch No: [text box]
- Company Code: [text box]
- Batch Date: [text box] Year: [text box] Period: [text box]
- Invoices From: [text box] To: [text box]
- Print Invoices: ☐ <I> Immediate or <D> Deferred
- Batch Closed: ☐
- Current Total: [text box] Invoices entered in this batch: [text box]
- Separator: '\*\*\* G/L Control Accounts \*\*\*'
- Debtor: [text box]
- Sales Tax: [text box]
- Buttons: OK, Cancel

The background of the main menu window shows a blue sky with clouds and the 'i-teba Print' logo.

First select an existing batch number, or to create a new batch: tab through a blank batch number field, fill in the company code and batch date, select Print Invoices D(ferred) and click OK.

Select the job that you wish to invoice. To view previous invoices (to amend them) put a tick in the 'Include Historical Jobs' box.

Answer the prompt:

A 'Confirm' dialog box with a question mark icon. The text inside reads: 'Invoice based on Default Estimate?'. Below the text are two buttons: 'Yes' and 'No'.

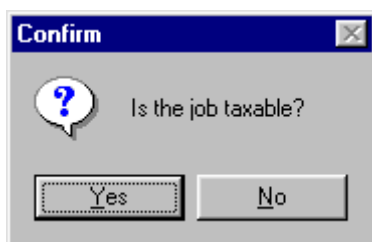
Estimated and Actual Costs. When creating an invoice the system prompts the user as to whether the invoiced amount should default to the amount the job actually cost to produce or the amount that it was estimated to cost. If an estimate was sent to the customer then it would be natural to default to the estimated amount. In either case the screen will display three columns, Estimated, Actual and Charged.

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Answer the prompt:



depending on whether VAT is applicable to this invoice.

You are then shown the main invoicing screen:

The 'Invoice Screen' window displays job information and a detailed cost breakdown. The job details at the top are: Job No 1319, Ac No BBBUILDE, Name B.B. BUILDERS LTD, Quantity 10000, Delivery Date (empty), and Title 16 page Self cover Booklet.

	ESTIMATE		ACTUAL		CHARGE
Paper	807.84		35.00		807.84
Contribution Margin %:	5.00	40.39	5.00	1.75	5.00 40.39
Repro	378.00		0.00		378.00
Contribution Margin %:	0.00	0.00	0.00	0.00	0.00 0.00
Press	1404.08		0.00		1404.08
Contribution Margin %:	0.00	0.00	0.00	0.00	0.00 0.00
Finishing	19.99		0.00		19.99
Contribution Margin %:	0.00	0.00	0.00	0.00	0.00 0.00
Outwork	136.46		0.00		136.46
Contribution Margin %:	5.00	6.82	5.00	0.00	5.00 6.82
TOTAL COSTS	2793.59		36.75		2793.59
PROFIT/LOSS %:	15.00	419.04	15.00	5.51	15.00 419.04
SELLING PRICE	3212.62		42.26		3212.62

At the bottom, there are buttons for 'Print Invoice', 'Header Dets', 'Add Lines', 'OK', and 'Cancel'.

These three columns allow the user to have an overview of the Estimated Vs Actual costs. It then may be necessary for the user to review the costs in more detail. This can be achieved by double-clicking on the relevant subtotal in the Charge column. Thus by clicking on the Repro subtotal all the relevant costs for Repro can be displayed.

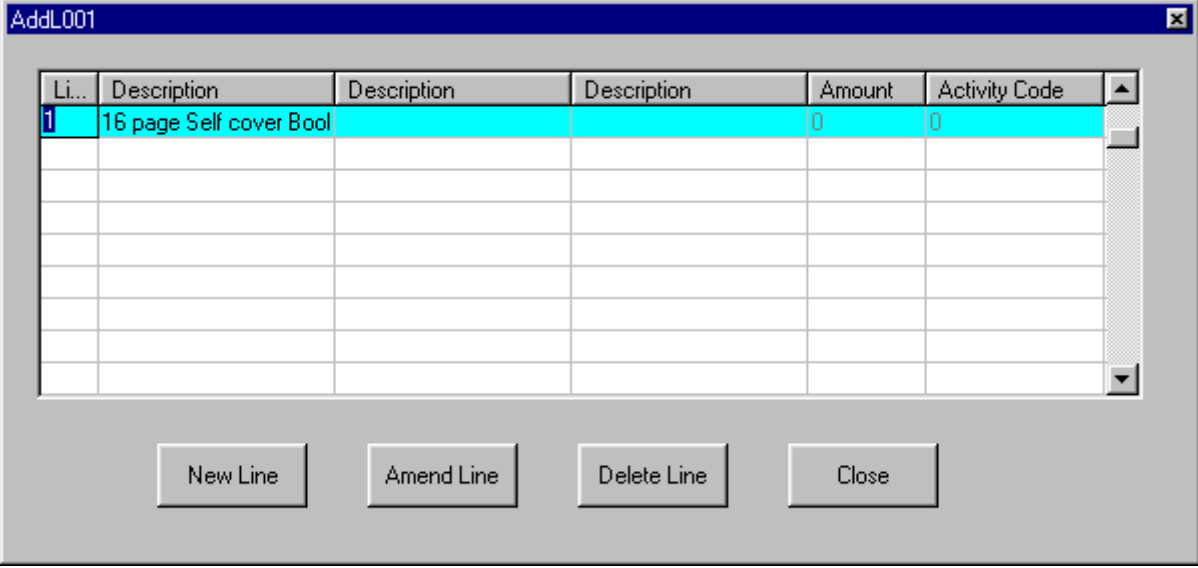
If, for instance, the outwork cost for film exceeded the estimated amount then it is possible to amend the charged amount for that cost individually. This amount can then be broken out of the

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invoice by putting in an additional line. This will allow the user to describe the additional charge which will then be printed separately on the invoice. By clicking on the Add Lines button you come to:

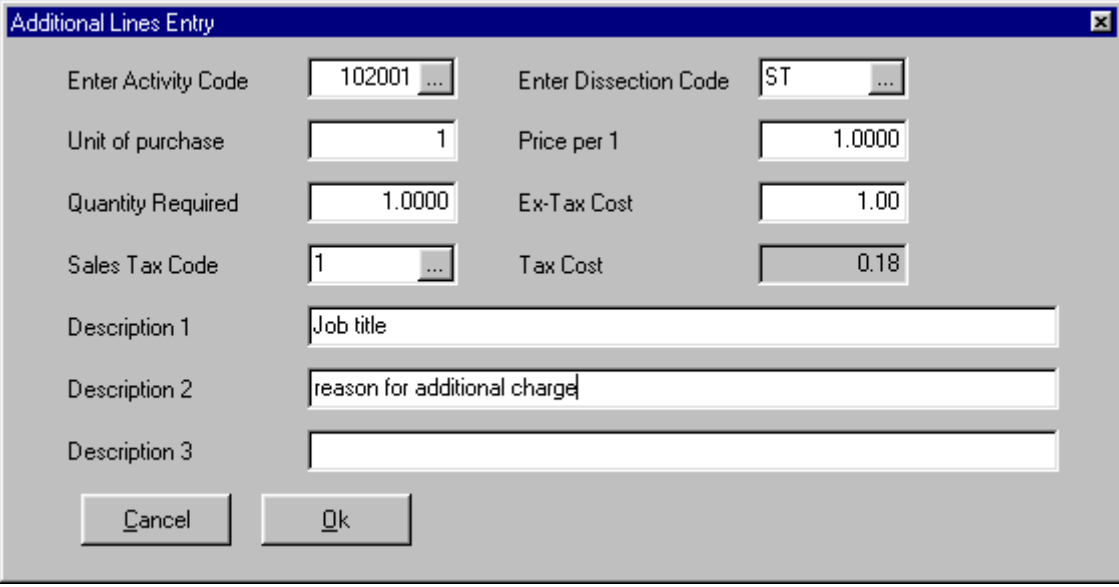


The 'AddL001' window displays a table with the following data:

Li...	Description	Description	Description	Amount	Activity Code
1	16 page Self cover Bool			0	0

Below the table are four buttons: New Line, Amend Line, Delete Line, and Close.

By clicking on the New Line or Amend Line buttons, you can create or amend an additional invoice line:



The 'Additional Lines Entry' window contains the following fields:

- Enter Activity Code: 102001
- Enter Dissection Code: ST
- Unit of purchase: 1
- Price per 1: 1.0000
- Quantity Required: 1.0000
- Ex-Tax Cost: 1.00
- Sales Tax Code: 1
- Tax Cost: 0.18
- Description 1: Job title
- Description 2: reason for additional charge
- Description 3: (empty)

At the bottom are 'Cancel' and 'Ok' buttons.

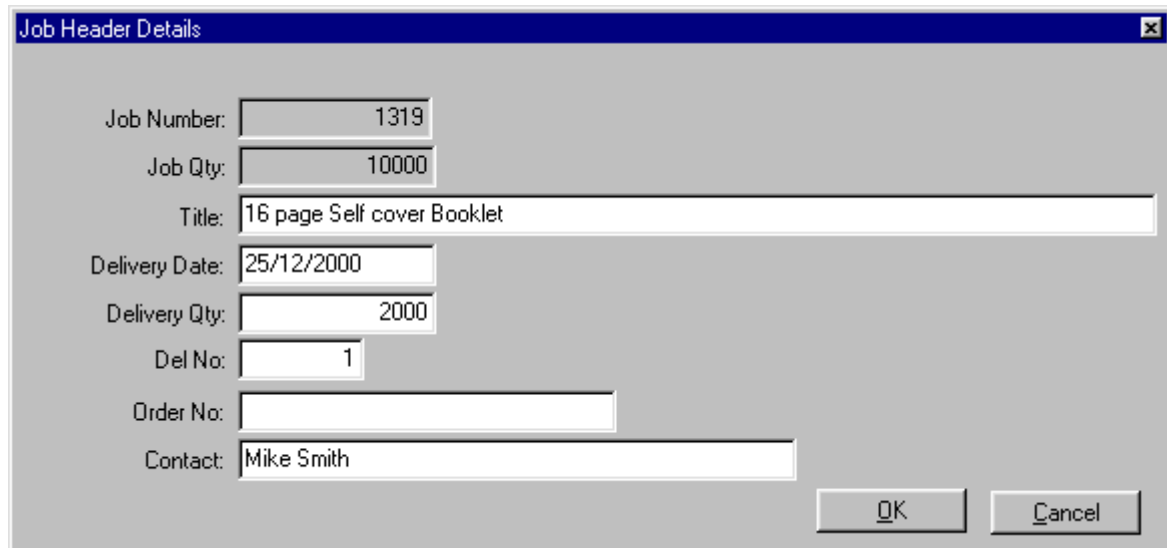
Select an appropriate Activity Code, Dissection Code, then fill in the details of cost. The Job title will default into the Description 1 field, other details can be added into Description 2 and 3. Click OK to save and exit.

The Invoice total will now be increased by the amount of the additional line.

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The Job Header Details button allows changes to the job title, delivery date and delivery quantity (this quantity will be picked up from the despatch suite of programs and will thus indicate the total amount delivered through despatch).



The screenshot shows a dialog box titled "Job Header Details" with a close button (X) in the top right corner. The dialog contains several input fields for job information:

- Job Number: 1319
- Job Qty: 10000
- Title: 16 page Self cover Booklet
- Delivery Date: 25/12/2000
- Delivery Qty: 2000
- Del No: 1
- Order No: (empty field)
- Contact: Mike Smith

At the bottom right of the dialog are two buttons: "OK" and "Cancel".

**Job Notes.** Notes may have been entered on to the system during the life of the job. It is possible to review these notes by using the Job Status Review module. This is a good way of recording any extra charges that need to be passed on to the customer at the time of invoicing.

Once a price is fixed it is then only necessary to invoice the job by clicking OK on the main invoicing screen. When this selection is made the job is allocated the next invoice number from the system and is taken out of work in progress. If a tick is put in the Print Invoice box, you will chain through to the Invoice Crystal Report.